

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for transmitting packets through a network having multiple paths between a first communications node and a second communications node, the method comprising:

transmitting from the first communications node to ~~the~~ a network having multiple paths a first sequence of packets associated with a transaction;

transmitting from the network to the second communications node the first sequence of packets in sequential order;

transmitting from the second communications node to the network a second sequence of packets; and

transmitting from the network to the first communications node the second sequence of packets in a non-sequential order

whereby sequential order is guaranteed when packets are received by the second communications node by ~~transmitting~~ routing the first sequence of packets along the same path in the network and is not guaranteed when packets are received by the first communications node by ~~transmitting~~ routing at least two packets of the second sequence of packets along different paths in the network.

2-4. (Canceled)

5. (Original) The method of claim 1 wherein the first communications node is a host and the second communications node is a data store device.

6. (Original) The method of claim 5 wherein the host executes a program that provides data to be written to the data store device and the host caches the provided data so that the program can continue its execution while the data is being transmitted to the data store device as a sequence of packets whose sequential order is guaranteed.

7. (Original) The method of claim 5 wherein the host executes a program that indicates that data is to be read from the data store device and the program suspends its execution until the data is received from the data store device.

8. (Original) The method of claim 1 wherein the second communications node does not have a capability to reorder a sequence of packets.

9. (Original) The method of claim 8 wherein the second communications node is a data store device.

10. (Original) The method of claim 1 wherein the first communications node has a capability to reorder a sequence of packets.

11. (Original) The method of claim 1 wherein the network includes switches that transmit the packets of the second sequence on different paths to effect load balancing.

12. (Canceled)

13. (Original) The method of claim 1 wherein sequential order is only guaranteed for packets within the same transaction.

14. (Original) The method of claim 1 wherein the first communications node, the second communications node, and the network are part of a storage area network.

15. (Original) The method of claim 14 wherein the second communications node is a data store device.

16. (Original) The method of claim 14 wherein the second communications node does not have an ability to reorder packets of a transaction.

17. (Currently Amended) A method for transmitting packets from a first communications device to a second communications device across a switching network having multiple paths, the method comprising:

~~transmitting~~ routing a sequence of packets associated with a single transaction from the first communications device to the second communications device along a single path in ~~the~~ a switching network having mutiple paths wherein the packets arrive at the second communications device in an order that is guaranteed to be sequential; and

~~transmitting~~ routing a sequence of packets from the second communications device to the first communications device along multiple paths in the switching network wherein the packets arrive at the first communications device in an order that is not guaranteed to be sequential.

18-21. (Canceled)

22. (Currently Amended) The method of claim ~~19~~ 17 wherein the first communications device, the second communications device, and the network are part of a storage area network.

23. (Original) The method of claim 22 wherein the second communications device is a data store device.

24. (Original) The method of claim 17 wherein the second communications device is a data store device.

25. (Currently Amended) A device for incorporation in a multiple path network to transmitting packets of a transaction between a host and a data store device comprising:
a component that receives in sequential order packets of a transaction that are to be transmitted from the host and transmits in sequential order the packets of the

transaction to the data store device wherein the packets of the transaction arrive at the data store device in an order that is guaranteed to be sequential because the packets are routed along a single path in a multiple path network; and

a component that receives packets of a transaction from the data store device in a non-sequential order and transmits the packets of the transaction to the host wherein the packets of the transaction arrive at the host in an order that is not guaranteed to be sequential because the packets are routed along multiple paths in the multiple path network.

26. (Original) The device of claim 25 wherein the device is a switch.

27. (Original) The device of claim 25 wherein the host, data store device, and device are part of a storage area network.

28. (Original) The device of claim 25 wherein the device has multiple ports and wherein packets of each transaction received from the host are transmitted to the data store device via the same port.

29. (Original) The device of claim 25 wherein the device has multiple ports and wherein packets of each transaction received from the data store device may be transmitted to the host via different ports.

30. (Original) The device of claim 25 wherein the data store device is a disk storage device.

31-32. (Canceled)

33. (New) The method of claim 1, wherein the same path in the network is determined on a per transaction basis.

34. (New) The method of claim 17, wherein the single path in the network is determined on a per transaction basis.

35. (New) The device of claim 25, wherein the single path in the network is determined on a per transaction basis.